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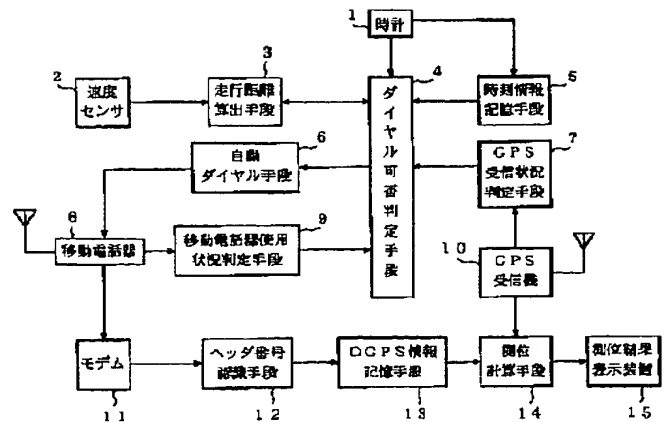PUBLICATION NUMBER : 10268027

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APPLICANT : MITSUBISHI ELECTRIC CORP;

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TITLE : GPS NAVIGATOR

ABSTRACT : PROBLEM TO BE SOLVED: To reduce the number of calls and a call time without reducing an accuracy for measuring a position by dialing a base station from a portable telephone at each specific time automatically.

SOLUTION: A portable telephone 8 is used to call a base station by an automatic dialing means 6 and DGPS information is stored in a RAM for a frame length after waiting until the message type number of a header being outputted from a modem 11 becomes 1 to indicate a DGPS (differential GPS) correction value. A microcomputer calculates a difference between a pseudo distance obtained from a GPS receiver 10 and a pseudo distance error obtained from the RAM, the correction pseudo distance is obtained for at least three satellites, the correction position for measuring the position is obtained based on the correction pseudo distance, and the position measurement result is displayed on a display device 15. In this manner, the telephone automatically calls to the base station at each preset time and DGPS information is obtained from the base station, thus reducing the number of calls without reducing an accuracy for measuring a position.